

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A method for browsing a data communications network, the method comprising:

requesting, by a browser accessing a network site and executing on a processor, user data from a user-controlled resource-constrained device when asaid network site that requires said user data ~~is accessed~~, said requesting occurring prior to said browser requesting said user data from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor when said user data is unavailable from said user-controlled resource-constrained device; and

sending, by said browser, said user data to a network server associated with said network site when said user data is received from said user-controlled resource-constrained device by said browser.

2. (Currently Amended) A method for browsing a data communications network, the method comprising:

receiving, by a user-controlled resource-constrained device, a request, from a browser, for user data wherein said user data is one of static user data and dynamic user data;

returning said user data by said user-controlled resource-constrained device to said browser when said user data is found stored on said user-controlled resource-constrained device and when said returning user data for

said request is enabled on said user-controlled resource-constrained device and when said user data is said static user data;

reconfiguring said user data by said user-controlled resource-constrained device when said user data is found stored on said user-controlled resource-constrained device and when said returning user data for said request is enabled on said user-controlled resource-constrained device and when said user data is said dynamic user data; and

returning said reconfigured user data by said user-controlled resource-constrained device to said browser.

3. (Cancelled)

4. (Currently Amended) A method for browsing a data communications network, the method comprising:

requesting, by a browser accessing a network site and executing on a processor, a cookie from a user-controlled resource-constrained device when asaid network site that requires said cookie is accessed, said requesting occurring prior to said browser requesting said cookie from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor, when said cookie is unavailable from said user-controlled resource-constrained device; and

sending by said browser, said cookie to a network server associated with said network site when said cookie is received from said user-controlled resource-constrained device by said browser.

5. (Currently Amended) A method for browsing a data communications network, the method comprising:

receiving, by a user-controlled resource-constrained device, a request, from a browser, for a cookie;

returning said cookie by said user-controlled resource-constrained device to said browser when said cookie is found stored on said user-controlled resource-constrained device and when said returning said cookie for said request is enabled on said user-controlled resource-constrained device and when said cookie comprises a static cookie;

reconfiguring a bit-pattern of said cookie by said user-controlled resource-constrained device when said cookie is found stored on said user-controlled resource-constrained device and when said returning said cookie for said request is enabled on said user-controlled resource-constrained device and when said cookie comprises a dynamic cookie; and

returning said reconfigured cookie by said user-controlled resource-constrained device to said browser.

6. (Cancelled)

7. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for browsing a data communications network, the method comprising:

requesting, by a browser accessing a network site and executing on a processor, user data from a user-controlled resource-constrained device when ~~asaid~~ a network site that requires said user data ~~is accessed~~, said requesting occurring prior to said browser requesting said user data from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor when said user data

is unavailable from said user-controlled resource-constrained device; and

sending, by said browser, said user data to a network server associated with said network site when said user data is received from said user-controlled resource-constrained device by said browser.

8. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for browsing a data communications network, the method comprising:

receiving, by a user-controlled resource-constrained device, a request, from a browser, for user data wherein said user data is one of static user data and dynamic user data;

returning said user data by said user-controlled resource-constrained device to said browser when said user data is found stored on said user-controlled resource-constrained device and when said returning user data for said request is enabled on said user-controlled resource-constrained device and when said user data is said static user data;

reconfiguring said user data by said user-controlled resource-constrained device when said user data is found stored on said user-controlled resource-constrained device and when said returning user data for said request is enabled on said user-controlled resource-constrained device and when said user data is said dynamic user data; and

returning said reconfigured user data by said user-controlled resource-constrained device to said browser.

9. (Cancelled)

10. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for browsing a data communications network, the method comprising:

requesting, by a browser accessing a network site and executing on a processor, a cookie from a user-controlled resource-constrained device when a said network site that requires said cookie is accessed, said requesting occurring prior to said browser requesting said cookie from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor, when said cookie is unavailable from said user-controlled resource-constrained device; and

sending by said browser, said cookie to a network server associated with said network site when said cookie is received from said user-controlled resource-constrained device by said browser.

11. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for browsing a data communications network, the method comprising:

receiving, by a user-controlled resource-constrained device, a request, from a browser, for a cookie;

returning said cookie by said user-controlled resource-constrained device to said browser when said cookie is found stored on said user-controlled resource-constrained device and when said returning said cookie for said request is enabled on said user-controlled resource-constrained device and when said cookie comprises a static cookie;

reconfiguring a bit-pattern of said cookie by said user-controlled resource-constrained device when said

cookie is found stored on said user-controlled resource-constrained device and when said returning said cookie for said request is enabled on said user-controlled resource-constrained device and when said cookie comprises a dynamic cookie; and

returning said reconfigured cookie by said user-controlled resource-constrained device to said browser.

12. (Cancelled)

13. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

means for requesting, by a browser accessing a network site and executing on a processor, user data from a user-controlled resource-constrained device when ~~asaid~~ network site that requires said user data is accessed, said requesting occurring prior to said browser requesting said user data from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor when said user data is unavailable from said user-controlled resource-constrained device; and

means for sending, by said browser, said user data to a network server associated with said network site when said user data is received from said user-controlled resource-constrained device by said browser.

14. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

means for receiving, by a user-controlled resource-constrained device, a request, from a browser, for user data wherein said user data is one of static user data and dynamic user data;

means for returning said user data by said user-controlled resource-constrained device to said browser when said user data is found stored on said user-controlled resource-constrained device and when said returning user data for said request is enabled on said user-controlled resource-constrained device and when said user data is said static user data;

means for reconfiguring said user data by said user-controlled resource-constrained device when said user data is found stored on said user-controlled resource-constrained device and when said returning user data for said request is enabled on said user-controlled resource-constrained device and when said user data is said dynamic user data; and

means for returning said reconfigured user data by said user-controlled resource-constrained device to said browser.

15. (Cancelled)

16. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

means for requesting, by a browser accessing a network site and executing on a processor, a cookie from a user-controlled resource-constrained device when ~~asaid~~ network site that requires said cookie is accessed, said requesting occurring prior to said browser requesting said cookie from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor, when said cookie is unavailable from said user-controlled resource-constrained device; and

means for sending by said browser, said cookie to a network server associated with said network site when said

cookie is received from said user-controlled resource-constrained device by said browser.

17. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

means for receiving, by a user-controlled resource-constrained device, a request, from a browser, for a cookie;

means for returning said cookie by said user-controlled resource-constrained device to said browser when said cookie is found stored on said user-controlled resource-constrained device and when said returning said cookie for said request is enabled on said user-controlled resource-constrained device and when said cookie comprises a static cookie;

means for reconfiguring a bit-pattern of said cookie by said user-controlled resource-constrained device when said cookie is found stored on said user-controlled resource-constrained device and when said returning said cookie for said request is enabled on said user-controlled resource-constrained device and when said cookie comprises a dynamic cookie; and

means for returning said reconfigured cookie by said user-controlled resource-constrained device to said browser.

18. (Cancelled)

19. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

a network browser, executing on a processor, configured to request user data from a user-controlled resource-constrained device when a network site that requires said user data is accessed by said network

browser, said request occurring prior to said network browser requesting said user data from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor when said user data is unavailable from said user-controlled resource-constrained device, said network browser further configured to send said user data to a network server associated with said network site when said user data is received from said user-controlled resource-constrained device by said network browser.

20. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

a smart card configured to receive a request for user data from a browser wherein said user data is one of static user data and dynamic user data, said smart card further configured to return said user data, stored on said smart card, to said browser when said user data is found and when said returning user data for said request is enabled and when said user data is said static user data, said smart card further configured to reconfigure said user data when said user data is found stored on said smart card and when said returning user data for said request is enabled and when said user data is said dynamic user data, said smart card further configured to return said reconfigured user data to said browser.

21. (Cancelled)

22. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

a network browser, executing on a processor, configured to request a cookie from a user-controlled resource-constrained device when a network site that

requires said cookie is accessed by said network browser, said requesting occurring prior to said browser requesting said cookie from another device (i) different from said user-controlled resource-constrained device and (ii) included in a device including said processor when said cookie is unavailable from said user-controlled resource-constrained device, said network browser further configured to send said cookie to a network server associated with said network site when said cookie is received from said user-controlled resource-constrained device by said network browser.

23. (Currently Amended) An apparatus for browsing a data communications network, the apparatus comprising:

a smart card configured to receive a request for a cookie from a browser, said smart card further configured to return said cookie to said browser when said cookie is found on said smart card and when said returning said cookie for said request is enabled on said smart card and when said cookie comprises a static cookie, said smart card further configured to reconfigure a bit-pattern of said cookie when said cookie is found on said smart card and when said returning said cookie for said request is enabled on said smart card and when said cookie comprises a dynamic cookie, said smart card further configured to return said reconfigured cookie to said browser.

24. (Cancelled)

25. (Original) An apparatus for enhanced privacy protection in identification in a data communications network, the apparatus comprising:

a smart card configured to store a randomized ID obtained in response to enrolling for a service on said

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data communications network, said smart card further configured to release said randomized ID to obtain services on said data communications network.